

Product datasheet

Anti-XPA antibody ab84780

★★★★☆ 1 Abreviews 3 Images

Overview

Product name	Anti-XPA antibody
Description	Rabbit polyclonal to XPA
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rhesus monkey, Gorilla, Elephant
Immunogen	Synthetic peptide, corresponding to a region between residue 1 and 50 of human XPA (NP_000371.1).
Positive control	Human controls: Breast Carcinoma, Colon Carcinoma, Ovarian Carcinoma, Prostate Carcinoma, Stomach Adenocarcinoma, Testicular Seminoma Mouse controls: Teratoma

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	ab84780 was affinity purified using an epitope specific to XPA immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab84780** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★☆	

Application notes

IHC-P: 1/100 - 1/500. Epitope exposure is recommended. Epitope exposure with citrate buffer will enhance staining.

Likely to work with frozen sections.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Involved in DNA excision repair. Initiates repair by binding to damaged sites with various affinities, depending on the photoproduct and the transcriptional state of the region. Required for UV-induced CHK1 phosphorylation and the recruitment of CEP164 to cyclobutane pyrimidine dimers (CPD), sites of DNA damage after UV irradiation.

Tissue specificity

Expressed in various cell lines and in skin fibroblasts.

Involvement in disease

Defects in XPA are a cause of xeroderma pigmentosum complementation group A (XP-A) [MIM:278700]; also known as xeroderma pigmentosum type 1 (XP1). XP-A is a rare human autosomal recessive disease characterized by solar sensitivity, high predisposition for developing cancers on areas exposed to sunlight and, in some cases, neurological abnormalities. Group A patients show the most severe skin symptoms and progressive neurological disorders.

Sequence similarities

Belongs to the XPA family.

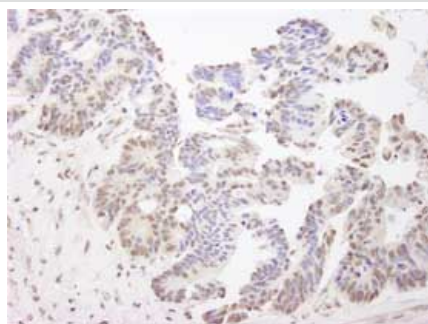
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.
Ubiquitinated by HERC2 leading to degradation by the proteasome.

Cellular localization

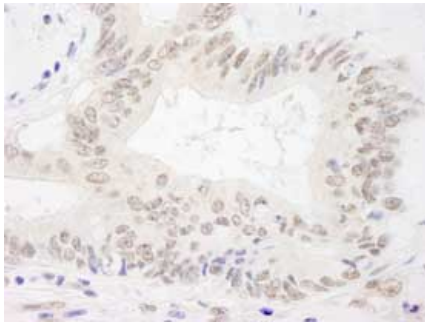
Nucleus.

Images



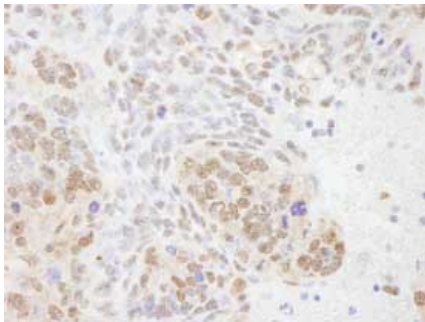
ab84780, at a 1/500 dilution, staining XPA in formalin fixed, paraffin embedded human ovarian tumor by Immunohistochemistry using DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - XPA antibody (ab84780)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - XPA antibody (ab84780)

ab84780, at a 1/500 dilution, staining XPA in formalin fixed, paraffin embedded human colon carcinoma by Immunohistochemistry using DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - XPA antibody (ab84780)

ab84780, at a 1/100 dilution, staining XPA in formalin fixed, paraffin embedded mouse teratoma by Immunohistochemistry using DAB staining.

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